EXHIBIT 2

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1	UNITED STATES DISTRICT COURT
2	NORTHERN DISTRICT OF CALIFORNIA
3	SAN FRANCISCO DIVISION
4	
5	x
6	WAYMO, LLC, :
7	Plaintiff, :
8	v. : Case No.
9	UBER TECHNOLOGIES, : 3:17-cv-00939-WHA
10	INC., OTTOMOTTO, LLC, :
11	and OTTO TRUCKING, :
12	INC., :
13	Defendants. :
	x
14	HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY
15	
16	Videotaped Deposition of PHILIP HOBBS,
17	taken at 777 Sixth Street, Northwest,
18	11th Floor, Washington, D.C. 20001-3706,
19	commencing at 9:42 a.m., Friday, August 18,
20	2017, before Christina S. Hotsko, RPR,
21	a Notary Public in and for the District of
22	Columbia.
23	
24	JOB No. 2680864
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1	description.	
2	Q. But again, you agree that all physical	
3	diodes in the real world will exhibit leakage	
4	current?	
5	A. Under certain operating conditions.	11:44:55
6	Q. Okay. So there are no physical diodes in	
7	the real world that will allow current flow in one	
8	direction only, period?	
9	A. Well, you have to discuss it in the	
10	context of the circuit. Because, for instance, if	11:45:12
11	you if the diode is never reverse-biased	
12	Q. Then leakage current doesn't come into	
13	play.	
14	A. Then you won't have any leakage current.	
15	Q. So a diode doesn't always have to be	
16	its reverse-bias property doesn't always have to	
17	be used?	
18	COURT REPORTER: Sorry. Could you just	
19	slow down?	
20	MR. NEWTON: Sorry.	
21	BY MR. NEWTON:	
22	Q. I think what you just said or what you	
23	just suggested is that the reverse-bias property	
24	of the diode does not always have to be used.	
25	A. That's right.	11:45:39
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1	Q. There's applications where a diode might	
2	just be used to send current one direction	
3	A. Yes.	
4	Q and the reverse-bias feature doesn't	
5	come into play?	11:45:48
6	A. That's correct.	
7	Q. Okay. So then let me try to phrase it in	
8	terms of what the diode is capable of doing. Any	
9	real-world physical diode will be capable of	
10	allowing leakage current in its reverse-bias	11:45:58
11	state, correct?	
12	A. Yes. That's right.	
13	Q. Okay. So there's no real-world diodes	
14	that will allow the flow of current in one	
15	direction only; they're all going to allow it in	11:46:12
16	both directions.	
17	A. Well, I mean, it depends what you mean by	
18	allow. The	
19	Q. I'm just using Uber's definition.	
20	A. Well, I understand that. But it the	11:46:21
21	thing is that when you say allow," and the	
22	reason why I don't like Dr. Wolfe's	
23	construction is that he says much more easily.	
24	And the just a moment. And the whereas I	
25	think that that is I think that is far more	11:46:38
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1	so that the so that the diode doesn't do	
2	anything, then you could certainly put choose	
3	components where that wouldn't be the case.	
4	Q. Then at line 62 it says, "Upon the diode	
5	being reverse biased, the current through the	14:18:16
6	diode [sic] 510 goes to zero, the voltage across	
7	the inductor 510 settles at zero, which sets node	
8	A to the voltage of the voltage source 502 (e.g.	
9	the voltage V1), but the capacitor may hold a	
10	higher voltage (e.g. about 2 V1)."	14:18:37
11	A. Yes.	
12	Q. And again, that's using permissive	
13	language; it says it may hold a higher voltage	
14	than the voltage source.	
15	A. Yes, it does.	14:18:49
16	Q. And if you go to column 19, line 26	
17	through 27.	
18	A. Okay.	
19	Q. Again, it says, "The charge on the	
20	capacitor 516 may exceed the voltage V1 of the	14:19:09
21	voltage source 502."	
22	Do you see that?	
23	A. I do.	
24	Q. So again, it's saying that the charge on	
25	the capacitor may exceed the maximum voltage of	14:19:21
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1	the voltage source, but it doesn't have to?	
2	A. Yes. I imagine they mean the voltage on	
3	the capacitor.	
4	Q. Instead of the charge on the capacitor?	
5	A. Yes.	14:19:32
6	Q. Then line 31 of column 19 says, "For	
7	example, the capacitor 516 may be initially	
8	charged to a voltage level of about 2 V1."	
9	So again, there, it's using permissive	
10	language to say that it may be charged above the	14:19:59
11	voltage of the voltage source.	
12	A. That's right. I mean, permissive	
13	language is another one of those lawyerisms that I	
14	wouldn't want to set my name to the full legal	
15	dictionary definition. But from a technical guy's	14:20:16
16	point of view, that's true.	
17	Q. Jumping to column 21	
18	A. Yep.	
19	Q. It says, "In some examples, the	
20	voltage" I'm sorry, column 21, line 3. It	14:20:35
21	says, "In some examples, the voltage at which the	
22	two voltages are approximately equal so as to	
23	terminate the charging cycle occurs for a voltage	
24	of about 2 V1."	
25	A. Yes.	14:20:50
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1	Q. So there it's saying in examples of the	
2	invention, the voltage on the capacitor can be	
3	2 V1?	
4	A. Yes. We've discussed cases where it	
5	could be more or less, depending on what you do	14:21:00
6	with the switch.	
7	Q. So you agree those are just examples;	
8	it's not a requirement to charge it up to 2 V1?	
9	A. Not the exact value, no.	
10	Q. I had a question I wanted to go back to	14:21:12
11	about something we were discussing earlier in the	
12	context of your LiDAR project. And I think there	
13	was a distinction you were making between pulsed	
14	operation and continuous operation.	
15	A. Yes.	14:22:21
16	Q. Is was that in the context of the	
17	coherent LiDAR that you were looking at?	
18	A. That's right. You can do coherent pulsed	
19	LiDAR, but CW is more common.	
20	Q. Okay. CW is continuous	14:22:37
21	A. Continuous wave, yeah.	
22	Q wave?	
23	A. In other words, you leave the laser	
24	turned on all the time.	
25	Q. Okay. What is the laser in that example?	14:22:40
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